GOVERNMENT OF MADRAS.

Old Secti. II 28, New Secti. II-16-
71,006—28-1-55.

P.W (1955) Department.

~~Endorsement~~
~~D.O.~~
~~Memorandum~~
~~Lodged~~

No. 51224 5 | 55-2

Dated 16-8-1955.

Calne
M2 HC

FURTHER PAPERS.

Department.	Number.	Series.	Date.

1. S. MOGRAL, B.A., M.L.A.

P. O. MOGRAL,
(Via) KUMBLA
(SOUTH KANARA)

June 9th,'55.

Dear Sir,

May I invite your kind attention to the representation made to you by the public of Arikkady and Koipady villages, whe you visited Kumbla last, about the shifting of the Shiriya and Kumbla River Bar and consequent damage caused by the same ~~phenoman~~. You were kind enough to agree that the only way to check the progress of the shifting of the Bar is by cutting open the bar at its original place. The rainy season has set in already and this is the right time to cut open the bar. If this is not done at this right time, people apprehend that fishermen's Colony would be washed away. It is said that the ~~cutting~~ cutting open the bar at its original place may not cost more than about Rs1000/- and the people in the neighbourin villages are prepared to contribute a small portion of the expenditure by ~~days~~ way of labour. Therefore I request you to kindly look into the matter and instruct the Collector to do the needful at the earliest. Thanking you.

Yours sincerely.

9/6/55

Hon. Sri. M.A.Manickavelu,

Minister for Land Revenue.

Government of Madras.

MADRAS.

very urgent

Memo. No. 51224-S/55-1 d

Sub:- Erosion - South Kana

Dist - Arikkady an

Koipady Villages - Sh

and Kumbla river

cutting open the bar al

original place.

— · —

Ref:- From Sri M.S. Mogral, M.L

d 9-6-55.

— · —

A copy of letter from Sr

M.S. Mogral, M.L.A., cite

is forwarded to the C.E (I),

is reported that the bar is

and notified as requeste

the villages mentioned

will be affected, the C.E.

requested to arrange to

examine the technica

aspect of it and take

the work ~~immediately~~ immediately

~~and send a report~~.

if necessary. Sanc

18/6/55 of the Competent authorit

should however be ~~obtained~~

obtained before incurring an

expenditure. He is requested

send a report in the matter

as early as possible.

21.6.55

CENTRAL DESPATCH

To C.E. (I) with copy

& p.l c.f.

C.F. 32 ft —70,10,658—20-1-54.

Department

From (Name) Sri.U.Ananda Rao, B.E., M.I.E.(Ind)M.Am.,Soc.,C.E.I.S.E.
Designation Chief Engineer for Irrigation,
Station Chepauk, Madras-5.

Received Registered

To

The Secretary to Governme
Public Works Departme
Fort St.George, Madra

Enclosure to G.O. No. 6450 28 JUL 1955 PUBLIC WORKS DEPARTMENT ASSISTANT SECRETARY

1169/55 B E R. dated 21-7-1955.

Sir,

Sub:- EROSION - (South Kanara) - Arikk and Koipady villages - Shiriya and Kumbla river Bar cutting open the bar at its original place.

Ref:- Government Memorandum No. 51224-S/ P.W., dated 21-6-1955.

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I forward herewith a copy of letter No. 1041-I, dated 9-7-1955 with its enclosure from the Superintending Engineer, West Coast Circle, on the subject, for the information of the Government.

T. V. Narayana Murthi. 25.7.55

For CHIEF ENGINEER FOR IRRIGATION.

Encl:
Copy of S.E's letter cited with its enclosure.

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mks.24.7.55.

Copy of letter No. 1041 I, dated 9-7-55, from the Superintending Engineer, West Coast Circle, Coimbatore, to the Chief Engineer for Irrigation, Chepauk, Madras-5.

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Sub:- Erosion (South Kanara)-Arikkady and Koipady villages-Shiriya and Kumbla river Bar cutting open the bar at its original place.
Ref:- Your Endt.Nos. 1169/55-B-1 dated 1-4-55 and 2135/55-B-1 dated 27-6-55.

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In reference to the above, I enclose a copy of report from Sub Divisional Officer Mangalore Sub Division to the Executive Engineer South Kanara Division in his No.1092 E dated 9-6-55 for information.

2 The formation of bars across the mouths of rivers in the West Coast is a common phenomena e.g., the bar at the mouth of Chandragiri river in Kasaragod Taluk and the bar across the Palakode river in Puthiyangadi limits in the Chirakkal Taluk of Malabar which have been asked to be reported on in your No. 4910/54/B-1, dated 28-9-54 and 1185/55 B-2 dated 22-4-55 respectively. Owing to natural causes such as direction of currents and litoral drift along the coast, bars are formed across the mouths of rivers, and the mouths get shifting and travelling along either towards the north or South until a permanent obstruction in the form of a rocky promontory or projecting cliffs is met with when the mouth gets stablished. This is also a feature on the West Coast of Ceylon.

3 The remedy usually resorted is to cut open the bars periodically at the time of high floods at the site of the original mouths; in a period of low tide when the difference in head causes scouring and restoration of the original mout with the sea. The mouth again shifts gradually further away season after season as before. But the process is gradual and when it again threatens to cause damage the mouth is cut at the original site by the interests affected to restore th status quo.

4 In the present case, the Sub Divisional officer reports that the mouth of the Shriya river was originally (about 15 years back) at point "A" marked in the sketch and the villag of Bombrana used to cut the bar whenever there was trouble. But since the last 15 years such co-operative effort was not forthcoming and hence the travel of the mouth to "B" opposit to the Railway bridge at Kumbla where about 600 feet further down the fishermen's hutments and curing yards are located.

5 It is now understood from the Executive Engineer that t villagers of Bombrana have formed a committee, and collected about Rs.1,000/- and addressed Collector for further help in regard to funds. They have also arranged to cut the bar with the help of the villagers, and the fish folk who are affected. Once the bar is cut, at site A, it is expected th the trouble will be removed. In case the bar is not cut by them, action will be taken by the Department as directed in the Government memorandum.

Sd.T.S.Padmanabha Ayyar, 4-7-55.
Suptg.Engr.West Coast Circle.

Encl: 1 copy of S.D.O's Report.
1 Blue Print plan.

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/ True Copy /

Copy of letter No. 1092 E. dated 9-6-55 from the Sub Divisional Officer, Mangalore Sub Division to the Executive Engineer, South Kanara Division.

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Sub:- Sea erosion-Kasaragod-Koipady village-damages to properties etc., prevention-report for.

Ref:- Divl.Nos.1691 N/11-10-54; 1855 N/13-11-54; 279 Rev./ 22-3-55; 532 N/5-4-55; 464 N/23-3-55; 842 N/19-5-55; 864 N/23-5-55; 796 N/12-5-55; and 747 N/7-5-55.

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The site of the bar where there is erosion was inspected by me along with the fishing petty officer.

My enquiry shows that some 15 years back the bar was existing just below the Shiriya river marked A in plan. It is understood about 15 years back the villages during high floods the bar was being cut and the flood water flowing from the river was made to pass through the cut to the sea. Since 15 years the villagers nearby did not co-operate and cutting of the bar was abandoned, with the re ult the bar began moving south year after year and at present the bar is formed in front of the Kumbla river opposite the beidge across Kumbla river marked B in plan which is about 1 mile from the old bar.

(P) The reason for shifting of the bar is the abondoning of cutting the bar at A during high floods in Shriya river has caused the closing up of the gap.

2. The current in Shiriya river during floods is very strong compared to the current in Kumbla river which is only a small river;

3. The Shriya river flows from North to south from Shiriya Railway bridge and that of Kumbla river flows directly east to west.

4. Since the force of current in Shririya river is greater than Kumbla river the bar began moving slowly for the last 15 years. At present the bar has been found very close to the building constructed by the fishermen and it is likely that if there is any further shifting the building may even collapse.

The fish curing yard mentioned is about 600 feet. south of the bar and there is no immediate danger of it being collapsing. Between the edge of the bar and the fish curing yard building there are about dozen buildings. They are all of kutc and thatched buildings, belonging to fishermen. The distance at present from the fish curing yard to the sea foreshore is about 500 ft. It is understood that during heavy rain in monsoon period the sea water encroaches upto a distance of 100 feet from the fish curing yard building and marks are also visible of water from the sea having come upto this limit. In rear of these buildings i.e.to east the back water and the Kumbla river flows up to about ¾ of a mile. It is also understood that this back water channel has widened and has also encroaching upon the shore from the east side, thus the sandy shore on which the buildings are situated are vertually being encroached upon by the sea in front and back water from the river.

(P) It is stated in the report that due to the shifting of the bar towards south, about 32 acres of sea shore has been washed away and about 1½ miles away from the bar marked C in the plan some huts and cocoanut trees also have been destroyed In this connection, I have to state that it is very unlikely that due to shifting of bar, the foreshore of the sea will be washed away, that too about 1½ miles away from the bar, This washing of the foreshore is only, due to nature of phenomena of the sea through out the coast which has a tendency to encroach upon the sandy shore and certainly not due to the shifting of the bar.

Perhaps some damage may occur to the buildings situate near the existing bar, in which case it is better to advise the fishermen whose buildings are nearby to evacuate immediately so that there may not be any danger to life and property. As regards fish curing yard, is concerned, this building is 600 ft. away from the bar. The building is very kutcha one. It is very unlikely that the bar will shift immediately, very near this building but if the fisheries Department apprehend any danger, they are also advised to shift themselves to some other suitable site, where the building will not be affected.

As regards remedial measures suggested in their report to put up a dyke wall across the river will not be feasible and it will cost a good deal and cannot be constructed immediately as suggested in the report. The best possible course to be taken up now is to cut open the bar at the old place marked A by requesting the villagers of Bombrana and other well to do people to co-operate and give their assistance to cut the bar what they used to do some years back. Another suggestion is * sea to arrest further erosion. This is only a trial, but may not be successful one as such plantation will not be able to withstand the force of the sea waves dashing against them.

Finally in this connection, I would like to point out the report from special Chief Engineer to the Secretary to the Government vide letter no..4091/53-B9 dated 26-6-54 wherein it is said that the movement of the bar is due to natural phenomena in all coastal regions and no permenent remedies short of a harbour and experience works including dredging will probably help to hold the bar in one place and lastly it is said that no action is necessary in regard to cutting open of the bar at Chandragiri. The same will hold good in this case also.

If the fisheries department are afraid that the bar may move still southwards the best thing they could do is to evacuate to some safe place as nothing can be done immediately to arrest the shifting of the bar or washing of the foreshore of the sea.

Sd. B.Gopal Rao,
Sub Divl.Officer, PWD.Mangalore Sub Division.

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/ True Copy /

mks.24.7.55.

SUPERINTENDENT. 25/7/55

* to plant some casurina plants along the foreshore of the

13 PW(S.)

Memo NV 5|224 5|55: 2 Dt 16.8.55

Sub: Erosion - South Kanara Dt.
Arikkady and Koipady Villages.
Shiriya and Kumbla river bar.
Cutting open the bar at its origin
place - Papers recorded.

Ref From WI C.E(9) No 1169|55 BER
Dt 21.7.5

Recorded.

16/8

Pb 5- 11 E.E Ref

CENTRAL DESPATCH BRANCH

To

The C.E(9)

16/8

16/8

10.8.55

12.8.55

To

The Secretary, Public Works Dept.

The letter from Mr.Mogral, M.L.A. is enclosed herewith. I visited this place and found that if the bar is not shifted as requested, the villages mentioned will be affected. The Chief Engineer will kindly arrange to examine the technical aspect of it and take up the work immediately so that the people may be benefited. This may be treated as very urgent and the matter examined.

Minister (Revenue)

15.6.55

P.W.(S2)

Please see the minutes of M(R), above. A draft memo. is submitted for approval.

SMR
18/6/55

21/6/55

21.6.55

Issued as Memo.No.51224-S/55-1, d/21.6.55.
From the C.E.(I) No.1169/55-BER, d/21.7.55.

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Sri M.S. Mogral, M.L.A. represented to M.(R.) that if the Shiriya and Kumbla river bar in South Kanara District was not shifted as requested by the public of Arikkady and Koipady, these villages would be affected. After visiting the place, M.(R) desired that the Chief Engineer should arrange to examine the technical aspect of the work and take it up immediately so that the people might be benefited. Instructions were issued to the C.E., accordingly.

2. The C.E., has now submitted the report of the S.E., in the matter for the information of the Govt. It is reported that the formation of bars across the mouths of rivers on the West Coast is a common phenomena. Owing to natural causes such as direction of currents and litoral drift along the coast, bars are formed across the mouths of rivers, and the mouths get shifted and travel along either towards the north or South until a permanent obstruction in the form of a rocky promontory or projecting cliffs is met with when the mouth gets stablised. This is also a feature on the West Coast of Ceylon.

3 The remedy usually resorted to is to cut open the bars periodically at the time of high floods at the site of the original mouths; in a period of low tide when the difference in head causes scouring and restoration of the original mouth with the sea. The mouth again shifts gradually further away seasonafter season as before. But the process is gradual and when it again threatens to cause damage, the mouth is cut at the original site by the interests affected to restore the status quo.

4 In the present case, the Sub Divisional officer reports that the mouth of the Shriya river was originally (about 15 years back) at point "A" marked in the sketch and the villagers of Bombrana used to cut the bar whenever there was trouble. But since the last 15 years such co-operative effort was not forthcoming and hence the travel of the mouth to "B" opposite to the Railway bridge at Kumbla where about 600 feet further down the fishermen's hutments and curing yards are located."

5 It is now understood from the Executive Engineer that the villagers of Bombrana have formed a committee and collected about Rs.1,000/- and addressed Collector for further help in regard to funds. They have also

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6/8

arranged to cut the bar with the help of the villagers, and the fish folk who are affected. It is reported that once the bar is cut, at site A, it is expected that the trouble will be removed. In case the bar is not cut by them, it is reported that action will be taken by the Department.

6. In the circumstances no special action seems called for. The file may be circulated to M.(R) through M.(W) with reference to the minutes of M.(R) on p.1 ante.

Ka 2.8.55 NL 2.8.55

3/8/55

DS 5/8/55

M(W)

M(R) 9/8.

The papers may now be recorded - vide 2 ab

Draft subs

Ks 10.8.55 NL 12.8.55

DEPUTY SECRETARY TO GOVERNMENT 10 AUG 1955 PUBLIC WORKS DEPARTMENT